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A Beginners Guide to TTL Digital ICs

Logic circuits are now part of everyday life, and practically every house is now equipped with numerous gadgets that contain digital circuits in one form or another. TTL logic integrated circuits are widely regarded as the "standard" range of digital devices, and as such are utilized in a wide variety of applications.

Getting started with logic circuits can be difficult, since many of the fundamental concepts of digital design tend to seem rather abstract, and remote from practical applications. This book covers the basic theory of digital electronics and the use of TTL integrated circuits, but does not lose sight of the fact that digital electronics has numerous "real world" applications.

The topics covered in this book include:-

The basic concepts of logic circuits

The functions of gates, inverters and other logic "building blocks"

TTL logic i.c. characteristics, and their use in practical circuit design

Oscillators and monostables (timers)

Flip/flops, binary dividers and binary counters

Decoders, data latches, and tristate buffers

The emphasis is on a practical treatment of the subject, and all the circuits are based on "real" TTL i.c.s. A number of the circuits demonstrate the use of TTL logic i.c.s in practical applications. An easy introduction to the world of TTL digital circuit design.